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10/726,004	12/01/2003	Gerd Danner	34874-082 UTIL	5231
64280 7590 04/24/2008 MINTZ, LEVIN, COHN, FERRIS, GLOVSKY & POPEO, P.C. ATTN: PATENT INTAKE CUSTOMER NO. 64280 ONE FINANCIAL CENTER BOSTON, MA 02111				
EXAMINER				
CHEN, TE Y				
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**Please find below and/or attached an Office communication concerning this application or proceeding.**

The time period for reply, if any, is set in the attached communication.

# Office Action Summary

**Application No.**

10/726,004

**Applicant(s)**

DANNER ET AL.

**Examiner**

SUSAN Y. CHEN

**Art Unit**

2161

-- The MAILING DATE of this communication appears on the cover sheet with the correspondence address --  
**Period for Reply**

A SHORTENED STATUTORY PERIOD FOR REPLY IS SET TO EXPIRE 3 MONTH(S) OR THIRTY (30) DAYS, WHICHEVER IS LONGER, FROM THE MAILING DATE OF THIS COMMUNICATION.

- Extensions of time may be available under the provisions of 37 CFR 1.136(a). In no event, however, may a reply be timely filed after SIX (6) MONTHS from the mailing date of this communication.
- If NO period for reply is specified above, the maximum statutory period will apply and will expire SIX (6) MONTHS from the mailing date of this communication.
- Failure to reply within the set or extended period for reply will, by statute, cause the application to become ABANDONED (35 U.S.C. § 133). Any reply received by the Office later than three months after the mailing date of this communication, even if timely filed, may reduce any earned patent term adjustment. See 37 CFR 1.704(b).

**Status**

- 1) ☒ Responsive to communication(s) filed on 09 January 2008.
- 2a) ☒ This action is **FINAL**. 2b) ☐ This action is non-final.
- 3) ☐ Since this application is in condition for allowance except for formal matters, prosecution as to the merits is closed in accordance with the practice under *Ex parte Quayle*, 1935 C.D. 11, 453 O.G. 213.

**Disposition of Claims**

- 4) ☒ Claim(s) 1-21 is/are pending in the application.
- 4a) Of the above claim(s) \_\_\_\_\_ is/are withdrawn from consideration.
- 5) ☐ Claim(s) \_\_\_\_\_ is/are allowed.
- 6) ☒ Claim(s) 1-21 is/are rejected.
- 7) ☐ Claim(s) \_\_\_\_\_ is/are objected to.
- 8) ☐ Claim(s) \_\_\_\_\_ are subject to restriction and/or election requirement.

**Application Papers**

- 9) ☐ The specification is objected to by the Examiner.
- 10) ☐ The drawing(s) filed on \_\_\_\_\_ is/are: a) ☐ accepted or b) ☐ objected to by the Examiner.  
Applicant may not request that any objection to the drawing(s) be held in abeyance. See 37 CFR 1.85(a).  
Replacement drawing sheet(s) including the correction is required if the drawing(s) is objected to. See 37 CFR 1.121(d).
- 11) ☐ The oath or declaration is objected to by the Examiner. Note the attached Office Action or form PTO-152.

**Priority under 35 U.S.C. § 119**

- 12) ☐ Acknowledgment is made of a claim for foreign priority under 35 U.S.C. § 119(a)-(d) or (f).
- a) ☐ All b) ☐ Some \* c) ☐ None of:
1. ☐ Certified copies of the priority documents have been received.
  2. ☐ Certified copies of the priority documents have been received in Application No. \_\_\_\_\_.
  3. ☐ Copies of the certified copies of the priority documents have been received in this National Stage application from the International Bureau (PCT Rule 17.2(a)).

\* See the attached detailed Office action for a list of the certified copies not received.

**Attachment(s)**

- 1) ☒ Notice of References Cited (PTO-892)
- 2) ☐ Notice of Draftsperson's Patent Drawing Review (PTO-946)
- 3) ☐ Information Disclosure Statement(s) (PTO/SG/US)  
Paper No(s)/Mail Date \_\_\_\_\_
- 4) ☐ Interview Summary (PTO-413)  
Paper No(s)/Mail Date \_\_\_\_\_
- 5) ☐ Notice of Informal Patent Application
- 6) ☐ Other: \_\_\_\_\_

***Response to Amendment***

This office action is in response to the amendment filed on Jan. 09, 2008.

Claims 1-21, are pending for examination, claims 1 and 15 have been amended.  
Claims 22-23 have been canceled.

***Specification***

The disclosure is objected to because of the following informalities:

At section 0041, there is a typing error, the phrase "a time leg" should be changed to "a time log".

Applicant is reminded to thoroughly check the whole specification to remove all possible semantic errors as needed.

Appropriate correction is required.

***Claim Rejections - 35 USC § 112***

The following is a quotation of the second paragraph of 35 U.S.C. 112:

The specification shall conclude with one or more claims particularly pointing out and distinctly claiming the subject matter which the applicant regards as his invention.

Claims 1-21, are rejected under 35 U.S.C. 112, second paragraph, as being indefinite for failing to particularly point out and distinctly claim the subject matter which applicant regards as the invention.

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As to claims 1 and 15, applicant's fails to define the metes and bounds of the claimed "first and second integration paths", "the first service quality" and "the second service quality", thereby, they render the claim to be indefinite.

As to claims 2-14 and 16-21, these claims have the same defects as their base claims, hence, are rejected for the same reason.

***Claim Rejections - 35 USC § 103***

The following is a quotation of 35 U.S.C. 103(a) which forms the basis for all obviousness rejections set forth in this Office action:

(a) A patent may not be obtained though the invention is not identically disclosed or described as set forth in section 102 of this title, if the differences between the subject matter sought to be patented and the prior art are such that the subject matter as a whole would have been obvious at the time the invention was made to a person having ordinary skill in the art to which said subject matter pertains. Patentability shall not be negated by the manner in which the invention was made.

Claims 1-21, are rejected under 35 U.S.C. 103(a) as being unpatentable over U.S. Publication No. US 2003/0208460 issued to Srikant et al. (hereinafter referred as Srikant) in view of U.S. Patent Pub. No. 2005/0120021 issued to Tang et al. (hereinafter referred as Tang) .

**Claim 1:**

Srikant discloses a system for operational reporting of multidimensional analysis of business data sources [e.g., the Online Analytical Processing (OLAP) application at P. 1, Sections: 0003-0010, the Distributed Teradata Warehouse & Teradata Customer Analysis product at section 0035], the system comprising:

one or more data sources providing OLTP data [e.g., the data warehouse at Section 0004, the source metadata and the OLAP data store at P. 1, Sections: 0009, the Distributed Teradata Warehouse, 0034-0035, the units: 420, 434 at Fig. 4 and associated texts];

a business intelligence (BI) platform having a multidimensional database providing OLAP data [e.g., P. 1, Sections: 0003-0005, 0050-0052 & Fig. 4]; and

a mapping tool to transform the OLTP data of the data sources not being processed by an OLTP engine or the BI platform to a first data set in accordance with a common meta model of a unified view module [e.g., Sections: 0058 –0060, Fig. 6 and associated texts];

the unified view module integrate the first data set of the OLTP data with the multidimensional database to produce a common meta model data set [e.g., Fig. 8 and associated texts]; and

a user interface (UI) tool set for creating a unified UI for displaying reports that are run on the multidimensional database and common meta model data set, the unified UI build reports from the common meta model data set e.g., the Graphical User Interface (GUI) at P. 3, Sections: 0031-0034],

Srikant did not specifically disclose the following:

the system including at least first and second data flow integration paths, the first path comprising the OLTP data and a mapping tool and having a first service quality; the second integration path comprising the BI platform and having a second services

quality that has at least some overhead of the BI platform which is not included in the first service quality.

However, Tang discloses the claimed features [e.g., Abstract, Sections: 0007-0008, the traversing of OLAP data element via the business intelligence paths such as "drill down", "drill up" and "drill to detail" techniques at Sections: 0046-0056; Fig(s). 12A – 19 and associated texts].

Srikant and Tang are both of the same endeavor to facilitate the OLAP analysis of system resources in an Enterprise data Management (EDM) system by using metadata as mapping tools for merging Business intelligence (BI), hence, with the teachings of Srikant and Tang in front of him/her, it would have been obvious for an ordinary skilled person in the art at the time the invention was made being motivated to use the scalable model-driven business logic as disclosed by Tang, into Srikant's system, because by doing so, the combined system will be upgraded to provide generic business intelligence data flow paths which facilitate a user of the system to navigate between related data sets that might not be obvious to a user and are therefor improve the OLAP analyzing qualities [e.g., Tang: Sections: 0001-0008].

Claim 2:

In addition to the limitations recited in claim 1, the combined system of Srikant and Tang further discloses the system comprising a UI runtime module to display the unified UI [e.g., Srikant: P. 3, Sections: 0035-0036].

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Claim 3:

In addition to the limitations recited in claim 1, the combined system of Srikant and Tang further discloses the system comprising a data acquisition module to acquire the OLTP data from the OLTP data source, and to provide the OLTP data to the multidimensional database or to the unified view module [e.g., P.3, Sections: 0031, 0036-37].

Claim 4:

In addition to the limitations recited in claim 1, the combined system of Srikant and Tang further discloses the BI platform is to execute OLAP analysis on the multidimensional database [e.g., P. 2, Section: 0015-0016 & Fig. 7].

Claim 5:

In addition to the limitations recited in claim 4, the combined system of Srikant and Tang further discloses the BI platform further includes a communication channel connected to a remote OLAP data source [e.g., the Internet at P. 6, Sections: 0062-0064].

Claim 6:

In addition to the limitations recited in claim 3, the combined system of Srikant and Tang further discloses the data acquisition module further includes one or more

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resource adapters for connecting to the one or more data sources [e.g., Fig. 7 & P. 6, Sections: 0062-0064].

**Claim 7:**

In addition to the limitations recited in claim 3, the combined system of Srikant and Tang further discloses the data acquisition module further includes one or more extraction programs to read data from the one or more data sources [e.g., the extract/link/load software of OLAP at P. 1, Section: 0005 & Fig. 8].

**Claim 8:**

In addition to the limitations recited in claim 3, the combined system of Srikant and Tang further discloses the data acquisition module further includes an exchange infrastructure for message-based exchange between the one or more data sources and the BI platform [e.g., the Teradata Customer Analysis Product at P. 3, Section: 0035].

**Claim 9:**

In addition to the limitations recited in claim 1, the combined system of Srikant and Tang further discloses the system comprising a mapping tool for mapping a data model of the one or more data sources to a common meta model for use by the unified view module [e.g., P. 5, Section: 0059].

**Claim 10:**



In addition to the limitations recited in claim 9, the combined system of Srikant and Tang further discloses the mapping is automatic [e.g., P. 2, Section: 0012].

Claim 11:

In addition to the limitations recited in claim 9, the combined system of Srikant and Tang further discloses the mapping is manual [e.g., P. 6, Section: 0071].

Claim 12:

In addition to the limitations recited in claim 4, the combined system of Srikant and Tang further discloses the BI platform further comprises a persistency memory for storing one or more tables representing the OLAP analysis [e.g., the unit 312, Fig. 3].

Claim 13:

In addition to the limitations recited in claim 1, the combined system of Srikant and Tang further discloses the unified UI is generated by a web application [e.g., the Web GUI at P.3, Section: 0035 & P. 6, Section: 0064].

Claim 14:

In addition to the limitations recited in claim 1, the combined system of Srikant and Tang further discloses the unified UI is generated by a desktop application [e.g., the Web GUI at P. 6, Section: 0064].

Claim 15:

Srikant discloses an architecture for integrating online transactional processing (OLTP) systems with online analytical processing (OLAP) system [e.g., Srikant: the Online Analytical Processing (OLAP) application at P. 1, Sections: 0003-0010, Distributed Teradata Warehouse & Teradata Customer Analysis product at section 0035], the architecture comprising:

- a data access layer including one or more data access programs for accessing OLTP data from an OLTP data source [e.g., Srikant: Fig. 3];

- a service layer including a business intelligence (BI) platform for generating OLAP data, and a mapping tool for transforming data from the OLTP data source to a first data set in accordance with a common meta-model [e.g., Srikant: P. 1, Sections: 0003-0005, 0050-0052, 0058 –0060 & Fig(s). 4 - 6 and associated texts];

- a unified view module providing the common meta-model for OLTP data of the first data set integrated with OLAP data [e.g., Srikant: Fig. 8 and associated texts]; and

- a user interface presentation layer configured to provide a user interface for displaying a report run on the integrated OLTP and OLAP data [e.g., Srikant: the Graphical User Interface (GUI) at P. 3, Sections: 0031-0034].

Srikant did not specifically disclose the following:

- the artechnique including at least first and second data flow integration paths, the first path comprising the OLTP data and a mapping tool and having a first service quality; the second integration path comprising the BI platform and having a second

services quality that has at least some overhead of the BI platform which is not included in the first service quality.

However, Tang discloses the claimed features [e.g., Abstract, Sections: 0007-0008, the traversing of OLAP data element via the business intelligence paths such as "drill down", "drill up" and "drill to detail" techniques at Sections: 0046-0056; Fig(s). 12A – 19 and associated texts].

Srikant and Tang are both of the same endeavor to facilitate the OLAP analysis of system resources in an Enterprise data Management (EDM) system by using metadata as mapping tools for merging Business intelligence (BI), hence, with the teachings of Srikant and Tang in front of him/her, it would have been obvious for an ordinary skilled person in the art at the time the invention was made being motivated to use the scalable model-driven business logic as disclosed by Tang, into Srikant's system, because by doing so, the combined system will be upgraded to provide generic business intelligence data flow paths which facilitate a user of the system to navigate between related data sets that might not be obvious to a user and are therefor improve the OLAP analyzing qualities [e.g., Tang: Sections: 0001-0008].

Claim 16:

In addition to the limitations recited in claim 15, the combined system of Srikant and Tang further discloses the common meta-model is organized into a unified business query view for display in the user interface [e.g., Srikant: Fig. 2].

Claim 17:

In addition to the limitations recited in claim 15, the combined system of Srikant and Tang further discloses the user interface presentation layer includes a design time module for generating the user interface [e.g., Srikant: P. 3, Section: 0031].

Claim 18:

In addition to the limitations recited in claim 17, the combined system of Srikant and Tang further discloses the user interface presentation layer includes a runtime module having an application for displaying the user interface [e.g., Srikant: P. 3, Section: 0035].

Claim 19:

In addition to the limitations recited in claim 18, the combined system of Srikant and Tang further discloses the application is a web application [e.g., Srikant: P. 3, Section: 0035].

Claim 20:

In addition to the limitations recited in claim 18, the combined system of Srikant and Tang further discloses the application is a desktop application [e.g., Srikant: P. 3, Section: 0035].

Claim 21:

The claimed limitations that " unified view module does not include information identifying sources of data in the common meta model data set such that a mapping of the data is not visible to a user of the common meta model data set" is the defaulted nature of unified view module.

### ***Response to Arguments***

Applicant's arguments filed on Jan. 09, 2008 have been fully considered but they are not persuasive.

After carefully review the amendment filed on Jan. 09, 2008, the examiner first noted that applicant did not provide any response to the specification objection as cited on record, hence, the objection is maintained.

In addition, the examiner disagrees with applicant's arguments that the ambiguous of instant invention under 35 U.S.C. 112, 2<sup>ST</sup> paragraph rejections can be resolved by the paragraph 17 at seq. of instant specification.

The excerption of paragraph 0017 is recorded as following:

"Data flow from the source systems 112 through the data access 102, service 104 and abstraction 106 layers can follow different paths, called "integration paths." Each integration path provides a unique service quality. Integration paths and their respective service qualities are described in further detail below"

As set forth above, the citation of paragraph 0017 at seq., merely disclosed that the source systems 112 provides different data flow integration paths, such that each of the integration path has a unique service quality. However, this paragraph and the

following specification are silent about the data structures of the claimed first and second integration paths, for example, the instant specification did not clearly defined what kind of "OLTP" data and mapping tool was included in the claimed first path. Furthermore, the instant specification fails to show any overhead that is not included in the claimed first service quality but being aggregated into the claimed second service qualities. As such, the examiner maintains the 35 U.S.C. 112, 2<sup>nd</sup> paragraph rejections on record.

Based on the discussion above, since applicant does not clearly point out the patentable novelty which he or she thinks the claims present in view of the state of the art disclosed by the references cited or the objections made. Further, they do not show how the amendments avoid such references or objections. The examiner concludes that the prior art read on the claimed features.

### ***Conclusion***

Applicant's amendment necessitated the new ground(s) of rejection presented in this Office action. Accordingly, **THIS ACTION IS MADE FINAL**. See MPEP § 706.07(a). Applicant is reminded of the extension of time policy as set forth in 37 CFR 1.136(a).

A shortened statutory period for reply to this final action is set to expire THREE MONTHS from the mailing date of this action. In the event a first reply is filed within TWO MONTHS of the mailing date of this final action and the advisory action is not

mailed until after the end of the THREE-MONTH shortened statutory period, then the shortened statutory period will expire on the date the advisory action is mailed, and any extension fee pursuant to 37 CFR 1.136(a) will be calculated from the mailing date of the advisory action. In no event, however, will the statutory period for reply expire later than SIX MONTHS from the date of this final action.

### ***Points of Contact***

Any inquiry concerning this communication or earlier communications from the examiner should be directed to Susan Y. Chen whose telephone number is 571-272-4016. The examiner can normally be reached on Monday - Friday from 7:00-4:30.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Mofiz Apu can be reached on 571-272-4080. The fax phone number for the organization where this application or proceeding is assigned is 571-273-8300.

Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see <http://pair-direct.uspto.gov>. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free). If you would like assistance from a USPTO Customer Service Representative or access to the automated information system, call 800-786-9199 (IN USA OR CANADA) or 571-272-1000.

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/Apu M Mofiz/

Supervisory Patent Examiner, Art Unit 2161

/Susan Y Chen/

Partial Sig. Examiner

Art Unit 2161

April 22, 2008